

PDF technical sheet NUP311C3



Single row cylindrical roller bearings

Single row cylindrical roller bearing, locating, separable, pressed steel cage

Product definition	
d	2.1654 "
D	4.7244 "
B	1.1417 "
E	4.1142 "
F	2.7756 "
d1	3.0394 "
rs min	0.0787 "
r1s min	0.0787 "
Radial clearance class	C3
Mass (without HJ ring)	5.33 oz
Brand	NTN



Product performance	
Dynamic load, C	111 kN
Static load, C0	111 kN
Fatigue limit load, Cu	13.50 kN
Nlim (oil)	7,000 RPM
Nlim (grease)	5,900 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions	
da min	2.5197 "
dc min	3.1496 "
Da max	4.3701 "
ra max	0.0787 "

Calculation factors

Equivalent dynamic radial load

$P = Fr$

Equivalent static radial load

$P_0 = Fr$